

dy 28/06

Work Order ID 70867



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Thursday, June 16, 2011 12:42:05 PM

Item ID:	D3017-041	Accept		Setup	Start	
Revision ID:					Stop	
Item Name:	Back Frame Assembly					
Start Date:	6/16/2011	Start Qty:	1.00		Cust Item ID:	
Required Date:	6/24/2011	Req'd Qty:	1.00		Customer:	
Reference:						

Approvals:	Process Plan:		Date:	Tooling:	Date:	Run	Start	
	QC:		Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3017	Rev B								

100

Large Fab
Large Fab

Weld per dwg A/R 4130 rod Batch: M160075 0.00
Large Fab

Memo 0.00
1-Cut D3017-1, D3017-3 and D3017-5 tubes as per Dwg D3017
2-Bend D3017-1 and D3017-3 tube as per dwg D3017 (DT8598)
3-Drill holes in D3017-5 Using DT8622
4-Deburr
5-Assemble and weld as per Dwg D3017 using Welding Jig DT8598
6-Drill holes in back frame using DT8621

B 11-8-3 (X1)

110

QC
Quality Control

QC9- Inspect visual per QSI004- Fusion Welds 0.00

Memo 0.00

1 0 BE 11/08/03

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

[illegible]

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[illegible]

1. The first step in the process is to identify the problem. This involves gathering information about the situation and understanding the needs of the stakeholders involved.

[REDACTED]



1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

[illegible]**Date:**

**Insp.
Stamp**

Δu_{iso}

XL

1117339

16 May 1981

START TIME: 10:15 am
OVEN TEMPERATURE: 320°C
FINISH TIME: 10:45 am

ESU/08/10 @

0.00

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 70867

Thursday, June 16, 2011 12:42:05 PM



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Item ID:	D3017-041	Accept		Setup	Start	
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Start Date:	6/16/2011	Start Qty:	1.00		Cust Item ID:	
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Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150 	Identify as per dwg & Stock Location: <i>GA</i>	0.00							
Packaging	Memo <i>w/o</i>	0.00							
Packaging	<i>70903</i>								
160 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

ES 4/08/10

CK 11/08/10

11-08-10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Thursday, June 16, 2011 12:42:03 PM

Work Order ID: 70867

Parent Item: D3017-041

Parent Item Name: Back Frame Assembly





Start Date: 6/16/2011

Required Date: 6/24/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP A 01.09.19 New issue EC
IPP RevB: as per revB DD verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M4130NT0.750W.083  4130 RD Tube .750 x.083W		Purchased	No			100	f	56.0170	2.458	2.587368			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MAT033		56.017							
				117579		32.1							
				117973		23.917							
M4130NT0.750W.049  4130 RD Tube .750 x.049W		Purchased	No			100	f	52.0000	11.125	11.71053			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MAT033		52							
				117973		52							
D3017-11  cap		Manufactured	No			100	Each	15.0000	2	2			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA		15							
				69074		15							
D3017-7  Lug		Manufactured	No			100	Each	2.0000	3	3			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA		1							
				69166		1							
				WA019		1							
				52915		1							

70871 X3

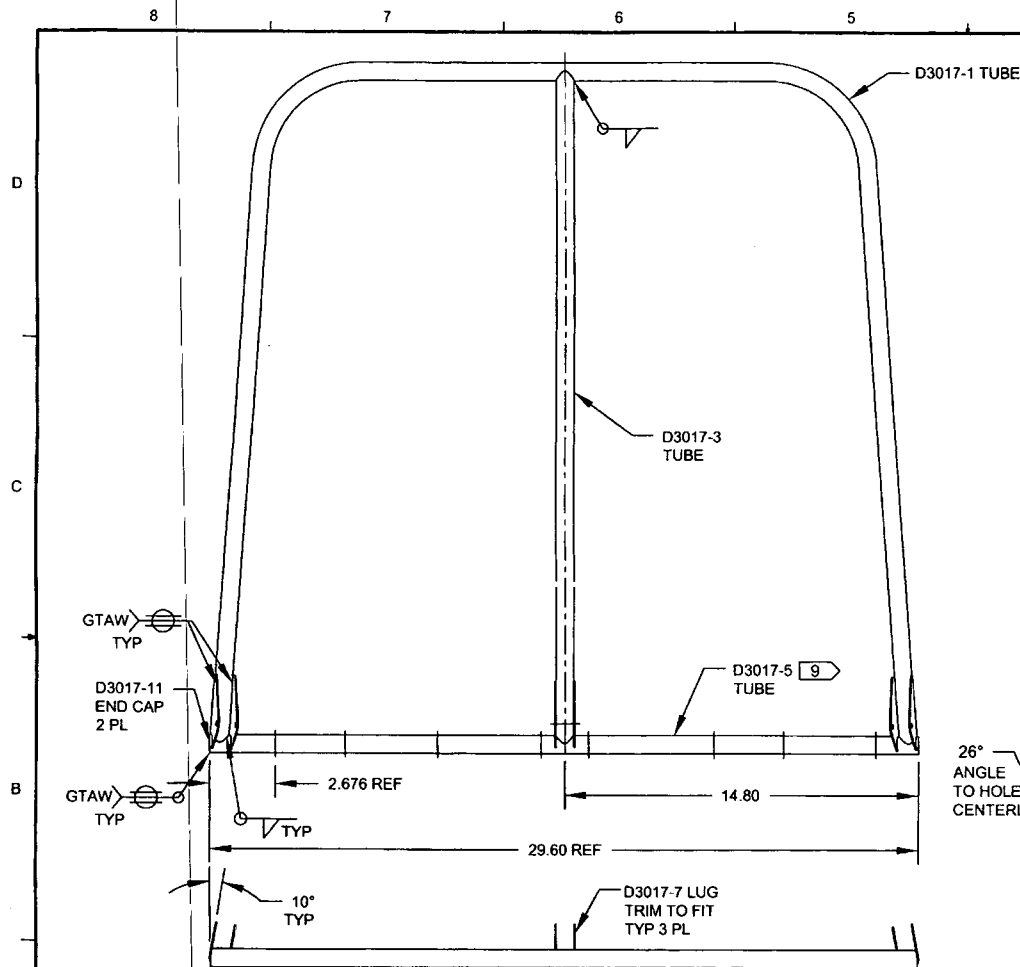
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



ITEM No.	QTY	PART NUMBER	DESCRIPTION
1	X	D3017-041	BACK FRAME ASSEMBLY
2	1	D3017-1	TUBE
3	1	D3017-3	TUBE
4	1	D3017-5	TUBE
5	3	D3017-7	LUG
6	2	D3017-11	END CAP

DRILL Ø.128 HOLES TO LINE UP WITH D3023-1 BACK PANEL

26°
ANGLE
TO HOLE
CENTERLINE

D3017-041 BACK FRAME ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT GREY SANTEX (4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3017-041" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 4.50 lbs
- 8) WELD PER DART QSI 004
- 9) ROTATE SO THAT PILOT HOLES ARE ANGLED AS SHOWN IN END VIEW.

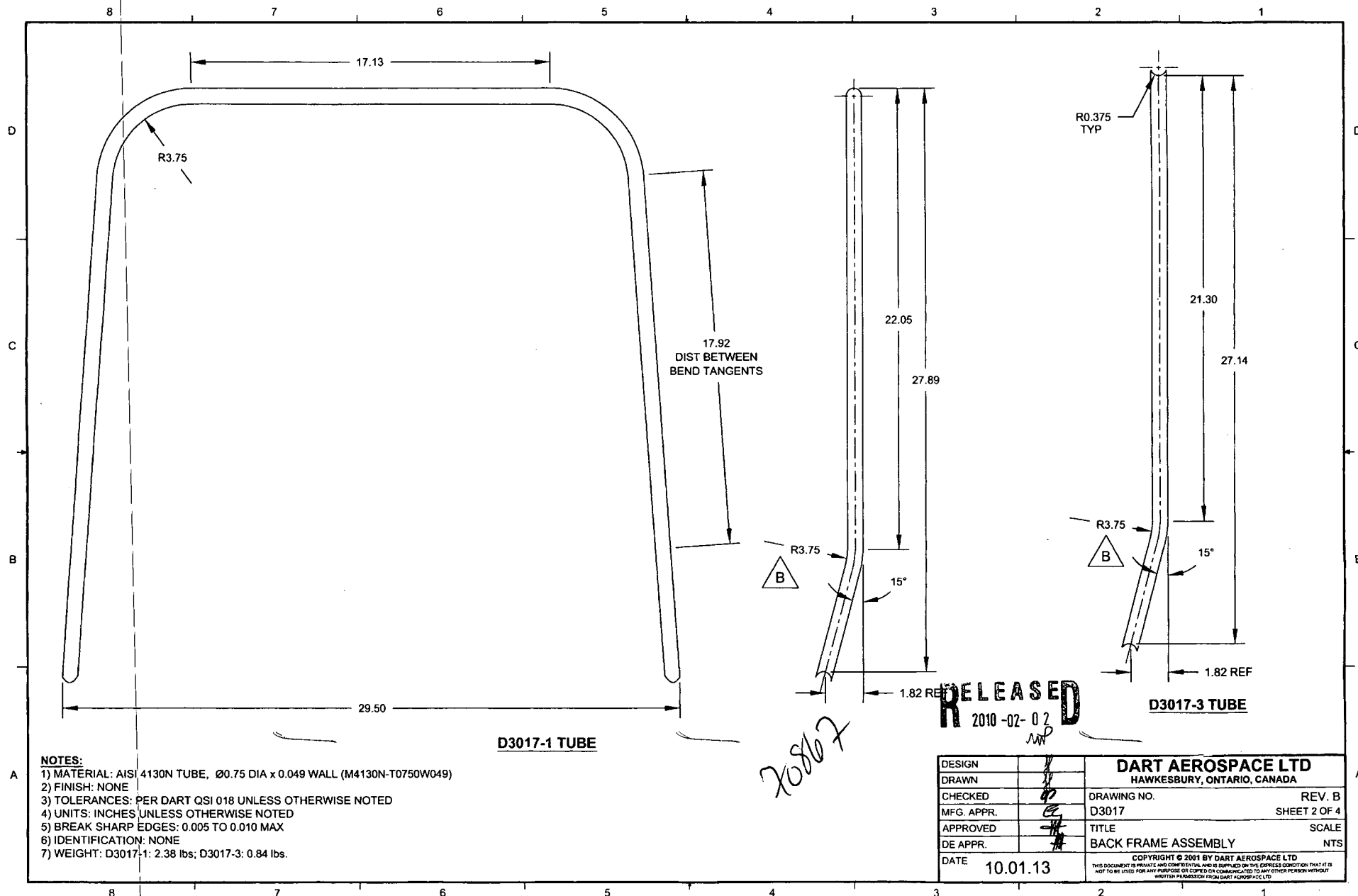
RELEASED
2010-02-02
WJP

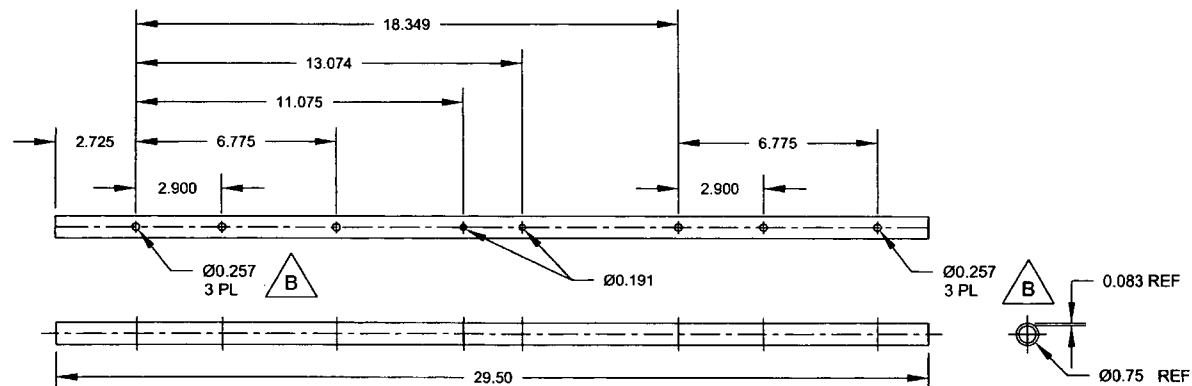
B	REFORMAT DWG, -5 TUBE WALL THKNS REVD (A8-3) SHEET 3 & 4 ADDED TO CLARIFY DRAWING. RADIUS CHANGED FROM R4.00 TO R3.75 (B4-2, B2-2). HOLE SIZE CHANGED FROM Ø.191 TO Ø.257 (C6-3, C3-3)	JPH	10.01.13
A	NEW ISSUE	CP	01.05.18
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.13		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. REV. B
D3017 SHEET 1 OF 4
TITLE SCALE
BACK FRAME ASSEMBLY NTS

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D3017-5 TUBE

RELEASED
2010-02-02

NOTES:

- 1) MATERIAL: AISI 4130N TUBE, Ø0.75 DIA x 0.083 WALL (M4130N-T0750W083)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.89 lbs

DESIGN		DART AEROSPACE LTD	
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CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3017	SHEET 3 OF 4
APPROVED		TITLE	SCALE
DE APPR.		BACK FRAME ASSEMBLY	NTS
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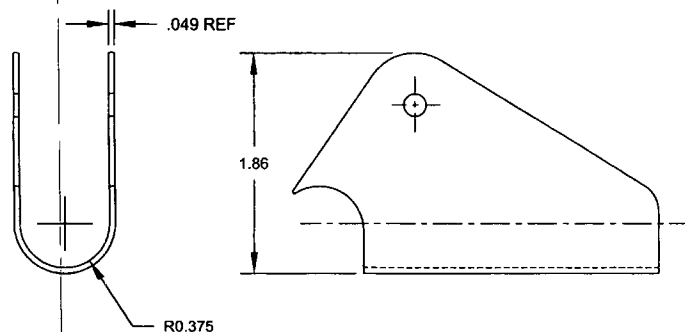
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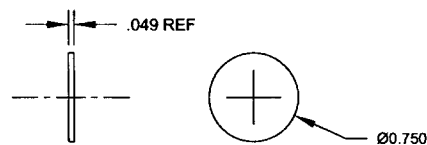
C

B

A



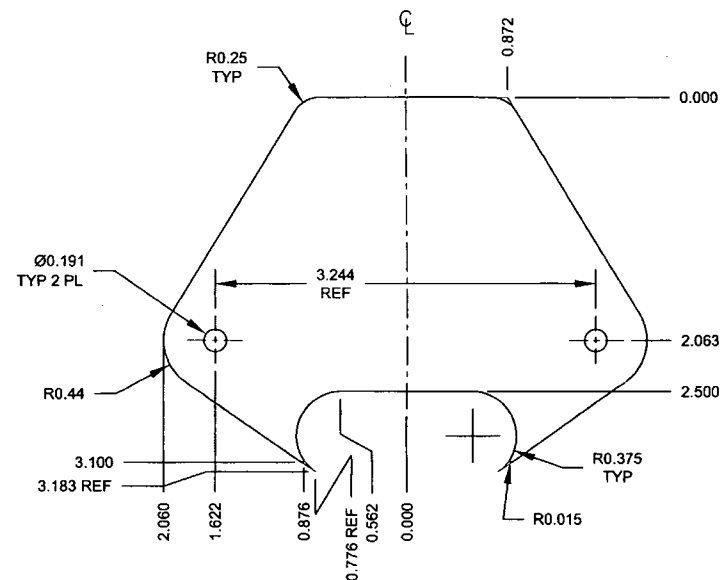
D3017-7 LUG
BENDING DETAIL
MAKE FROM D3017-7F



D3017-11 END CAP

NOTES:

- 1) MATERIAL: AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: -7: 0.12 lbs; -11: 0.01 lbs.



D3017-7F FLAT PATTERN
PART IS SYMMETRIC
ABOUT CENTERLINE

RELEASED
2010-02-02

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MFG. APPR.		D3017	SHEET 4 OF 4
APPROVED		TITLE	SCALE
DE APPR.		BACK FRAME ASSEMBLY	NTS
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8 7 6 5 4 3 2 1